

Claims:

1. Pharmaceutical preparation for treating blood coagulation disorders comprising an effective amount of vWF propeptide.
2. Preparation according to claim 1 essentially consisting of vWF propeptide.
3. Preparation according to claim 1 comprising pro-vWF containing the vWF propeptide.
4. Preparation according to claim 3, wherein the pro-vWF is a recombinant pro-vWF.
5. Preparation according to claim 1 to 4 which further contains a hemostasis protein, preferably a blood factor.
6. Preparation according to claim 5, wherein the blood factor is selected from the group consisting of mature vWF, factor VIII, activated blood coagulation factors, blood factors with FEIB-activity and FEIBA.
7. Preparation according to claim 6, wherein the pro-vWF is complexed to factor VIII.
8. Preparation according to claim 1 to 7 which further contains a platelet component, preferably at least one of a collagen, a platelet glycoprotein, a platelet, fibrinogen, fibrin, heparin, or a derivative thereof.
9. Preparation according to claim 1 to 8 which further contains phospholipids.
10. Preparation according to claim 1 to 9 which is treated for virus inactivation or virus removal.
11. Preparation according to claim 1 to 10 which further contains a pharmaceutically acceptable carrier.

12. Preparation according to claim 1 to 11, wherein the vWF propeptide is recombinant vWF propeptide.

13. A method for producing a pharmaceutical preparation containing an effective amount of vWF propeptide comprising providing a source material containing the vWF propeptide, separating the vWF propeptide from the source material and formulating the vWF propeptide to a pharmaceutical preparation.

14. A method according to claim 13, wherein the vWF propeptide is treated for inactivating or removing viruses.

15. A method according to claim 13 or 14, wherein the source material is plasma or a plasma fraction.

16. A method according to claim 13 or 14, wherein the source material is obtained from a cell culture.

17. A method according to claim 13, wherein the vWF propeptide is produced by recombinant DNA technology.

18. A method according to claim 13 to 17, wherein the vWF propeptide is contained in a pro-vWF.

19. A method according to claim 18, wherein the pro-vWF is a mutant pro-vWF with a mutation at the cleavage site of the vWF propeptide.

20. A method according to claim 13 to 19, wherein the pharmaceutical preparation is produced in the presence of an inhibitor which inhibits the cleavage of the vWF propeptide from the pro-vWF.

21. A method according to claim 13 to 20, wherein the vWF propeptide is separated by chromatography, preferably by affinity chromatography, from the source material.

22. A method according to claim 21, wherein the affinity chromatography employs carrier materials with ligands specific

for the vWF propeptide.

23. vWF-propeptide as a medicine.

24. pro-vWF containing vWF propeptide as medicine.

25. Use of vWF propeptide and/or pro-vWF containing the vWF propeptide for the preparation of a pharmaceutical composition for treating a patient at a risk of blood coagulation disorders.

26. Use of vWF propeptide and/or pro-vWF composition for the preparation of a pharmaceutical composition for the treatment of vWD inhibitors.

27. Use of pp-vWF or pro-vWF for improving the compatibility of pharmaceutical vWF-preparations.

28. Use of pp-vWF or pro-vWF for the preparation of a pharmaceutical composition for the treatment or prevention of adverse effects of endogenous or exogenous vWF, particularly elevated vWF levels associated with thrombotic thrombocytopenic purpura, Henoch-Schönlein Purpura, preclampsia, neonatal thrombocytopenia or hemolytic-uremic syndrome, myocardial infarction or poor outcome following arterial surgery.

29. Use of vWF propeptide and/or pro-vWF composition for the preparation of a pharmaceutical composition for the treatment of hemophilia.

30. Use of vWF propeptide and/or pro-vWF composition according to claim 29 for the treatment of phenotypic hemophilia, hemophilia A and factor VIII inhibitors.

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and
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Summary

Pharmaceutical Preparation Comprising vWF Propeptide

Described is a pharmaceutical preparation for treating blood coagulation disorders comprising an effective amount of vWF propeptide as well as a method for producing such a preparation.